

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.:

Patent No.:

Filed:

Issue Date:

Title:

Commissioner for Patents
Washington, D.C. 20231

POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST
(REVOCATION OF PRIOR POWERS)

As assignee of record of each of the patents listed in the table of attachment A,

REVOCATION OF PRIOR POWERS OF ATTORNEY

all powers of attorney previously given in each of the listed patents are hereby revoked, and

NEW POWER OF ATTORNEY

the following attorneys/agents are hereby appointed to prosecute this patent/application and to transact all business in the Patent and Trademark Office connected therewith: I hereby appoint all attorneys of Thomas, Kayden, Horstemeyer & Risley, LLP, who are listed under the USPTO Customer Number shown below as the attorneys to prosecute this patent/application and to transact all business in the United States Patent and Trademark Office connected therewith, recognizing that the specific attorneys listed under that Customer Number may be changed from time to time at the sole discretion of Thomas, Kayden, Horstemeyer & Risley, LLP, and request that all correspondence about the application be addressed to the address filed under the same USPTO Customer Number:

15650

Patent Trademark Office

Please direct all future correspondence and telephone calls to:

Scott A. Horstemeyer, Reg. No. 34,183
THOMAS, KAYDEN, HORSTEMEYER & RISLEY, L.L.P.
400 Interstate North Parkway
Atlanta, Georgia 30339
770-933-9500

ASSIGNEE OF ENTIRE INTEREST

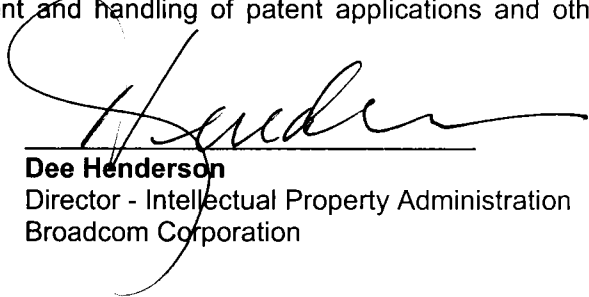
BROADCOM CORPORATION

5300 California Avenue
Irvine, California 92617-3038

ASSIGNEE CERTIFICATION

The certification under 37 C.F.R. §3.73(b) establishing the right of assignee to take action is attached hereto along with documentation evidencing same. Further, in my official position with Broadcom Corporation, I am authorized to sign documents and otherwise act on its behalf in connection with the management and handling of patent applications and other intellectual property matters.

Date: 9/12/11



Dee Henderson
Director - Intellectual Property Administration
Broadcom Corporation

Attachment A

| No. | Patent No | TKHR | Application Title | Issue Date | /Broadcom Assignment (Reel/Frame) |
|-----|-----------|------------|--|------------|-----------------------------------|
| 1 | 7,865,801 | 50228-6360 | APPLICATION OF A META-VITERBI ALGORITHM FOR COMMUNICATION SYSTEMS WITHOUT INTERSYMBOL INTERFERENCE | 01/04/11 | 018245/0642 |
| 2 | 7,657,872 | 50228-6380 | SYSTEM, METHOD, AND APPARATUS FOR DISPLAYING PICTURES | 03/09/10 | 022299/0916 |
| 3 | 7,912,428 | 50228-6390 | SYSTEM AND METHOD PROVIDING VARIABLE-FREQUENCY IF CONVERSION IN A MULTIMODE COMMUNICATION DEVICE | 03/22/11 | 017802/0358 |
| 4 | 7,697,024 | 50228-6400 | METHOD AND SYSTEM OF TRACKING AND STABILIZING AN IMAGE TRANSMITTED USING VIDEO TELEPHONY | 04/13/10 | 017124/0523 |
| 5 | 6,882,711 | 50228-6410 | PACKET BASED NETWORK EXCHANGE WITH RATE SYNCHRONIZATION | 04/19/05 | 011815/0119 |
| 6 | 6,757,367 | 50228-6420 | PACKET BASED NETWORK EXCHANGE WITH RATE SYNCHRONIZATION | 06/29/04 | 011525/0459 |
| 7 | 6,983,017 | 50228-6430 | METHOD AND APPARATUS FOR IMPLEMENTING REDUCED MEMORY MODE FOR HIGH-DEFINITION TELEVISION | 01/03/06 | 012493/0143 |
| 8 | 7,873,128 | 50228-6440 | METHOD AND SYSTEM FOR EQUALIZATION IN A COMMUNICATIONS SYSTEM | 01/18/11 | 018075/0976 |
| 9 | 6,509,897 | 50228-6450 | METHOD AND SYSTEM FOR PROVIDING IMPLICIT EDGE ANTIALIASING | 01/21/03 | 010897/0886 |
| 10 | 6,774,910 | 50228-6460 | METHOD AND SYSTEM FOR PROVIDING IMPLICIT EDGE ANTIALIASING | 08/10/04 | 010897/0886 |
| 11 | 7,471,342 | 50228-6500 | METHOD AND SYSTEM FOR CROSS-LUMINANCE REDUCTION IN MULTI-STANDARD TELEVISION DECODERS | 12/30/08 | 012912/0771 |
| 12 | 6,940,560 | 50228-6510 | METHOD AND SYSTEM FOR PERFORMING PAL LUMA TWO LINE VERTICAL COMBING | 09/06/05 | 012355/0746 |
| 13 | 7,366,961 | 50228-6520 | METHOD AND SYSTEM FOR HANDLING ERRORS | 04/29/08 | 022083/0433 |
| 14 | 7,358,534 | 50228-6530 | METHOD AND APPARATUS FOR PROCESSING VARIABLE LENGTH CODED DATA | 06/10/08 | 022083/0433 |
| 15 | 7,804,430 | 50228-6540 | METHOD AND APPARATUS FOR PROCESSING VARIABLE LENGTH CODED DATA | 09/28/10 | 022083/0433 |
| 16 | 7,898,547 | 50228-6550 | MEMORY CONTROLLER FOR HANDLING MULTIPLE CLIENTS AND METHOD THEROF | 03/01/11 | 022083/0433 |
| 17 | 7,212,534 | 50228-6560 | FLOW BASED CONGESTION CONTROL | 05/01/07 | 013022/0227 |
| 18 | 8,031,799 | 50228-6570 | MULTI-PAIR GIGABIT ETHERNET TRANCEIVER | 10/04/11 | 010694/0029 |
| 19 | 8,023,413 | 50228-6580 | FLOW BASED CONGESTION CONTROL | 09/20/11 | 013022/0227 |

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| 20 | 8,014,478 | 50228-6590 | METHOD AND APPARATUS FOR IMPULSE NOISE DETECTION AND SUPPRESSION FOR DVB-T | 09/06/11 | 022083/0433 |
| 21 | 8,018,853 | 50228-6600 | USING RTCP STATISTICS FOR MEDIA SYSTEMS CONTROL | 09/13/11 | 013615/0762 |
| 22 | 8,031,685 | 50228-6610 | METHOD AND SYSTEM FOR DYNAMICALLY CHANGING AUDIO STREAM BIT RATE BASED ON CONDITION OF A BLUETOOTH CONNECTION | 10/04/11 | 016337/0579 |
| 23 | 8,019,283 | 50228-6620 | AUTOMATIC DATA ENCRYPTION AND ACCESS CONTROL BASED ON BLUETOOTH DEVICE PROXIMITY | 09/13/11 | 016372/0576 |
| 24 | 8,023,895 | 50228-6630 | LOCATION SYSTEM FOR BLUETOOTH ENABLED DEVICES | 09/20/11 | 016370/0818 |
| 25 | 8,019,309 | 50228-6640 | METHOD AND SYSTEM FOR A SECOND ORDER INPUT INTERCEPT POINT (IIP2) CALIBRATION SCHEME | 09/13/11 | 015479/0231 |
| 26 | 8,013,888 | 50228-6650 | METHOD AND SYSTEM FOR IMPLEMENTING FILM GRAIN INSERTION | 9/06/11 | 017135/0986 |
| 27 | 8,005,312 | 50228-6660 | SYSTEM AND METHOD FOR IMPLEMENTING GRAPHICS AND VIDEO SCALING ALGORITHM USING INTERPLATION BASED ON SYMMETRICAL POLYPHASE FILTERING | 08/23/11 | 017307/0780 |
| 28 | 8,027,376 | 50228-6670 | METHOD AND SYSTEM FOR MEASURING IQ PATH MISMATCH | 09/27/11 | 018075/0976 |
| 29 | 8,026,980 | 50228-6680 | METHOD AND SYSTEM FOR IMPROVING VIDEO COMBINING DECISIONS | 09/27/11 | 018444/0118 |
| 30 | 8,023,591 | 50228-6690 | METHOD AND SYSTEM FOR A SHARED GM-STAGE BETWEEN IN-PHASE AND QUADRATURE CHANNELS | 09/20/11 | 018868/0256 |
| 31 | 8,014,392 | 50228-6700 | METHOD AND SYSTEM FOR ADVERTISING BLUETOOTH MULTICASE FEATURE | 09/06/11 | 020734/0607 |
| 32 | 8,009,231 | 50228-6710 | SYSTEM AND METHOD OF TRANSMISSION AND RECEPTION OF PROGRESSIVE CONTENT WITH ISOLATED FIELDS FOR CONVERSION TO INTERLACED DISPLAY | 08/30/11 | 014517/0895 |
| 33 | 7,916,784 | 50228-6720 | METHOD AND SYSTEM FOR INVERSE TELECINE AND FIELD PAIRING | 03/29/11 | 017082/0161 |
| 34 | 8,023,564 | 50228-6730 | SYSTEM AND METHOD FOR PROVIDING DATA STARTING FROM START CODES ALIGNED WITH BYTE BOUNDARIES IN MULTIPLE BYTE WORDS | 09/20/11 | 014787/0265 |
| 35 | 6,917,247 | 50228-6740 | NCO BASED TIMEBASE RECOVERY SYSTEM AND METHOD FOR A/V DECODER | 07/12/05 | 013666/0024 |
| 36 | 7,455,362 | 50228-6760 | DATA RATE MANAGEMENT SYSTEM AND METHOD FOR A/V DECODER | 12/16/08 | 014557/0882 |

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| | | | | | |
| 37 | 7,372,929 | 50228-6770 | CLOSED LOOP SUB-CARRIER SYNCHRONIZATION SYSTEM | 05/13/08 | 014703/0302 |
| 38 | 7,529,330 | 50228-6780 | CLOSED LOOP SUB-CARRIER SYNCHRONIZATION SYSTEM | 05/05/09 | 022588/0549 |
| 39 | 7,319,492 | 50228-6790 | OPEN LOOP SUB-CARRIER SYNCHRONIZATION SYSTEM | 01/15/08 | 014703/0328 |
| 40 | 7,864,865 | 50228-6800 | LINE ADDRESS COMPUTER FOR CALCULATING THE LINE ADDRESSES OF DECODED VIDEO DATA | 01/04/11 | 014253/0212 |
| 41 | 6,417,737 | 50228-6810 | ADAPTIVE RADIO TRANSCEIVER WITH LOW NOISE AMPLIFICATION | 07/09/02 | 011618/0793 |
| 42 | 6,608,527 | 50228-6820 | ADAPTIVE RADIO TRANSCEIVER WITH LOW NOISE AMPLIFICATION | 08/19/03 | 019588/0106 |
| 43 | 7,233,772 | 50228-6830 | ADAPTIVE RADIO TRANSCEIVER WITH FILTERING | 06/19/07 | 011827/0609 |
| 44 | 7,389,087 | 50228-6840 | ADAPTIVE RADIO TRANSCEIVER WITH FILTERING | 06/17/08 | 011827/0609 |
| 45 | 7,756,472 | 50228-6850 | ADAPTIVE RADIO TRANSCEIVER WITH FILTERING | 07/13/10 | 011827/0609 |
| 46 | 6,738,601 | 50228-6860 | ADAPTIVE RADIO TRANSCEIVER WITH FLOATING MOSFET CAPACITORS | 05/18/04 | 011581/0979 |
| 47 | 6,920,311 | 50228-6870 | ADAPTIVE RADIO TRANSCEIVER WITH FLOATING MOSFET CAPACITORS | 7/19/05 | 011581/0979 |
| 48 | 7,356,310 | 50228-6880 | ADAPTIVE RADIO TRANSCEIVER WITH FLOATING MOSFET CAPACITORS | 04/08/08 | 011581/0979 |
| 49 | 7,113,744 | 50228-6890 | ADAPTIVE RADIO TRANSCEIVER WITH POWER AMPLIFIER | 09/26/06 | 011550/0086 |
| 50 | 8,014,719 | 50228-6900 | ADAPTIVE RADIO TRANSCEIVER WITH POWER AMPLIFIER | 09/06/11 | 011550/0086 |
| 51 | 7,860,454 | 50228-6910 | ADAPTIVE RADIO TRANSCEIVER WITH POWER AMPLIFIER | 12/28/10 | 011550/0086 |
| 52 | 6,987,966 | 50228-6920 | ADAPTIVE RADIO TRANSCEIVER WITH POLYPHASE CALIBRATION | 01/17/06 | 011583/0672 |
| 53 | 6,917,789 | 50228-6930 | ADAPTIVE RADIO TRANSCEIVER WITH AN ANTENNA MATCHING CIRCUIT | 07/12/05 | 011998/0642 |
| 54 | 7,116,945 | 50228-6940 | ADAPTIVE RADIO TRANSCEIVER WITH AN ANTENNA MATCHING CIRCUIT | 10/3/06 | 011998/0642 |
| 55 | 7,349,673 | 50228-6920 | ADAPTIVE RADIO TRANSCEIVER WITH AN ANTENNA MATCHING CIRCUIT | 03/25/08 | 011998/0642 |
| 56 | 7,697,900 | 50228-6960 | ADAPTIVE RADIO TRANSCEIVER WITH AN ANTENNA MATCHING CIRCUIT | 04/13/10 | 011998/0642 |
| 57 | 8,023,902 | 50228-6970 | ADAPTIVE RADIO TRANSCEIVER WITH AN ANTENNA MATCHING CIRCUIT | 09/20/11 | 011998/0642 |
| 58 | 6,404,293 | 50228-6980 | ADAPTIVE RADIO TRANSCEIVER WITH A | 6/11/02 | 011546/0560 |

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| | | | LOCAL OSCILLATOR | | |
| 59 | 7,031,668 | 50228-6990 | ADAPTIVE RADIO TRANSCEIVER WITH A LOCAL OSCILLATOR | 04/18/06 | 011546/0560 |
| 60 | 7,720,444 | 50228-7010 | ADAPTIVE RADIO TRANSCEIVER WITH A LOCAL OSCILLATOR | 05/18/10 | 011546/0560 |
| 61 | 7,970,358 | 50228-7020 | ADAPTIVE RADIO TRANSCEIVER WITH A LOCAL OSCILLATOR | 06/28/11 | 011546/0560 |
| 62 | 7,752,371 | 50228-7030 | SYSTEM AND METHOD FOR INTERRUPT ABSTRACTION | 07/06/10 | 015860/0669 |
| 63 | 5,604,741 | 50228-7040 | ETHERNET SYSTEM | 02/18/97 | 007369/0419 |
| 64 | 8,027,641 | 50228-7050 | METHOD AND SYSTEM FOR DETECTING CHANNELS SUITABLE FOR FM TRANSMISSION IN AN INTEGRATED FM TRANSMIT/RECEIVE SYSTEM | 09/27/11 | 020376/0950 |